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International Conference on Graph Theory and Information Security

Preface**Rinovia Simanjuntak^a, Edy Tri Baskoro^a, Mirka Miller^b**^a*Combinatorial Mathematics Research Group, Institut Teknologi Bandung, Indonesia*^b*Graph Theory and Applications Research Group, The University of Newcastle, Australia*

The 2nd International Conference on Graph Theory and Information Security (ICGTIS) 2015 was held in Institut Teknologi Bandung, Indonesia, during 21-23 September 2015. This conference is jointly organized by Combinatorial Mathematics Research Group, Faculty of Mathematics and Natural Sciences, Institut Teknologi Bandung and Indonesian Combinatorial Mathematics Society (InaCombS). ICGTIS is focused on problems related to graph theory and information security. The topics of the conference include, but not limited to, degree/diameter problem, connectivity, cycles and factors in graphs, large graphs and digraphs, Ramsey numbers, dimensions of graphs, communication networks, coding theory, and cryptography.

This year, the conference was dedicated to honor Dr. Joe Ryan (The University of Newcastle) on his 60th birthday. Dr. Ryan has been a long supporter and friend of the Indonesian Combinatorics community. He has visited Indonesia numerous times, collaborated with many Indonesian graph theorists, and also supervised Indonesian students in the University of Newcastle.

During ICGTIS 2015, there were 54 talks which consist of a special presentation by Dr. Joe Ryan, 5 keynote, 3 invited, and 45 contributed talks. The keynote speakers are Brian Alspach, Martin Bača, Zdeněk Ryjáček, Miklós Simonovits, and Kiki Sugeng; and the invited speakers are S. Arumugam, Nacho López Lorenzo, and Andrea Se-maničová-Feňovčíková. From all the articles presented in conference, 32 selected papers are included in this proceeding.

We are thankful to our keynote speakers, invited speakers, and those who have submitted abstracts and articles to the conference. We would also like to thank Faculty of Mathematics and Natural Science ITB, Institute for Research and Community Services ITB and International Mathematics Union (IMU) who have generously sponsored this workshop.

Bandung, 10 November 2015

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